

CLAIMS

Sub B1

1. A method for transmitting time-sensitive information over a
2 wireless voice-over-data communication system, used in conjunction with a
predefined data protocol, comprising the steps of:
4 defining a minimum segment size for information to be transmitted;
defining a maximum segment size for information to be transmitted, said
6 second segment size greater than said first segment size;
generating a first segment from said time-sensitive information if a
8 sufficient quantity of said time-sensitive information is available for
transmission, said first segment having a segment size between said minimum
10 segment size and said maximum segment size; and
generating a second segment having a segment size less than or equal to
12 said maximum segment size upon the occurrence of a predefined event.
2. The method of claim 1 wherein said predefined event comprises
2 the receipt of an acknowledgment message.
3. The method of claim 1 wherein said maximum segment size is
2 negotiated between a transmitter and a receiver.
4. An apparatus for transmitting time-sensitive information over a
2 wireless voice-over-data communication system, used in conjunction with a
predefined data protocol, comprising:
4 means for negotiating a maximum segment size with a receiver;
a memory for storing a minimum segment size;
6 a queue for storing data frames, said data frames representing time-
sensitive information; and
8 a first processor for generating at least one segment from said data
frames stored within said queue when a segment size greater than or equal to
10 said minimum segment size can be generated from said data frames.
5. The apparatus of claim 4, further comprising a vocoder for
2 generating data frames from said time-sensitive information.

6. A method for transmitting time-sensitive information over a wireless voice-over-data communication system, used in conjunction with a predefined data protocol, comprising the steps of:

storing time-sensitive data in a queue, said time-sensitive data comprising data frames;

generating at least one segment from said time-sensitive data, said at least one segment comprising a predetermined number of data frames.

7. The method of claim 6 further comprising the step of generating said data frames from said time-sensitive information using a vocoder.

8. An apparatus for transmitting time-sensitive information over a wireless voice-over-data communication system, used in conjunction with a predefined data protocol, comprising:

a queue for storing data frames, said data frames representing time-sensitive information; and

a processor for generating at least one segment from said data frames when a predetermined number of said data frames are available in said queue.

9. The apparatus of claim 8 further comprising a vocoder for receiving said time-sensitive information and for generating said data frames.

10. A method for transmitting time-sensitive information over a wireless voice-over-data communication system, used in conjunction with a predefined data protocol, comprising the steps of:

storing vocoder frames in a queue, said vocoder frames representing time-sensitive information;

determining the number of bits contained within each of said vocoder frames;

adding bits to any of said vocoder frames which does not contain at least a predetermined number of bits.

11. Apparatus for transmitting time-sensitive information over a wireless voice-over-data communication system, used in conjunction with a predefined data protocol, comprising:

a queue for storing vocoder frames, said data frames representing time-sensitive information; and

a processor for adding random bits to any of said data frames which does not contain at least a predetermined number of bits.